

PATENT ABSTRACTS OF JAPAN

(11) Publication number :

02-033271

(43) Date of publication of application: 02.02.1990

(51) Int. CI.

H04N 5/262 H04N 5/225

H04N 5/335

(21) Application number : **63-184320**

(71) Applicant: MATSUSHITA ELECTRIC IND CO LTD

(22)Date of filing:

22.07.1988

(72) Inventor: KOJIMA ICHIRO

MORIMURA ATSUSHI

(54) IMAGE PICKUP DEVICE

(57) Abstract:

PURPOSE: To attain magnification processing of a picture with a few memory capacity without using any field memory by controlling the operation or stop of the vertical transfer or vertical scanning of a solid-state image pickup element so as to expand a picture signal in the vertical direction and to apply interpolation to the signal further.

CONSTITUTION: The operation or stop of the vertical transfer or vertical scanning of a solid-state image pickup element 1 is controlled by using a control signal c1 generated by a vertical address generating circuit 11 based on a pitch signal outputted from a vertical pitch generating circuit 12 to expand the picture signal picked up by the solid-state image pickup element 1 in the vertical direction. The signal read from the solid-state image pickup element 1 is written in line memories 5-7 and a weight signal is multiplied to the output of the line memories 5-7 by a vertical interpolation circuit 9 and the resulting signals are summed to apply interpolation. Moreover, the output is led out via a horizontal interpolation circuit 10.

BEST AVAILABLE COPY

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]
[Date of extinction of right]

Copyright (C); 1998, 2003 Japan Patent Office